

**ABSTRACT OF THE DISCLOSURE****METHOD AND APPARATUS FOR GENERATING INTERRUPTS UPON  
EXECUTION OF MARKED INSTRUCTIONS AND UPON ACCESS TO  
MARKED MEMORY LOCATIONS**

A method, apparatus, and computer instructions in a data processing system for processing instructions. An instruction is identified for execution within a processor in the data processing system. If an indicator is associated with the instruction then an interrupt is forced. With data accesses, a determination is made as to whether the indicator is associated with the data in response to an access of data. An interrupt is generated if the data is associated with the indicator.